

Name:.....

Address:.....

Date of Birth:.....

Qualification:.....

Gender:.....

Email:.....

Mobile no.:.....

Reasons for attending the programme:

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Signature and Designation of the sponsoring
authority :

Programme Director
Dr. Gopal Krishna
Director/Vice-Chancellor

Course Director
Dr. K. V. Rajendran
Principal Scientist & Head
AEHM Division

Course Coordinators
Dr. Gayatri Tripathi
Principal Scientist
AEHM Division

Dr. H. Sanath Kumar
Senior Scientist
FRHPH Division

Dr. K. Sreedharan
Scientist
Rohtak Centre

Dates to remember

Last date of submission of application
15th November, 2019

Communication of acceptance
20th November, 2019

Future Correspondence

Dr. K. V. Rajendran/Dr. Gayatri Tripathi
Course Director/Course Coordinator

ICAR-Central Institute of Fisheries Education
Panch Marg, Off Yari Road, Mumbai - 400 061, India

Fax. 022-26361573

Email: kvrajendran@cife.edu.in
gayatrit@cife.edu.in



Skill Development Programme on "Shrimp Disease Diagnosis and Management"

26th-30th November, 2019



**ICAR-Central Institute of Fisheries
Education (Deemed University)**
Mumbai
www.cife.edu.in



Skill Development Programme on “ Shrimp Disease Diagnosis and Management”



Expansion, intensification and diversification of aquaculture, introduction of exotic species, trade in aquatic animals and their products and global climatic change have resulted in new and increased incidence of pathogen incursion, expansion and enhanced virulence on a global scale. Further, aquatic environment poses several limitations in applying control and preventive measures against diseases. Considering these limitations, a holistic and scientific health management strategy needs to be adopted to achieve stable and sustainable production. In the overall health management procedure, rapid and accurate disease diagnosis is an important tool as it helps to execute appropriate management measures to minimize the onset and impact of diseases. With the expansion of shrimp farming in India, there is a growing impetus on the adoption of scientific management practices, which will help in devising preemptive measures rather than disease control measures. This concept requires wide dissemination among the farming community. The positive outcome of good management practices in shrimp farming industry would encourage greater acceptance of the concept.

Currently, *Penaeus vannamei* is one of the most commonly farmed shrimp species in India. *P. vannamei* is farmed widely in brackishwater along the coast and in inland saline waters in the states of Haryana, Punjab and Rajasthan. However, frequent mortalities and loss of cultured shrimps occur due to infectious and non-infectious agents leading to significant economic losses.

Against this background, the purpose of the training is to impart hands-on training to aquarists, entrepreneurs and researchers in the effective management of diseases in shrimp culture. This includes identifying various diseases/pathogens, their diagnosis and effective control and prevention strategies. The role of environmental/water quality parameters in the overall management of the health of shrimp will be an integral component

Training and Venue

Aquatic Environment and Health Management Division, ICAR-CIFE, Mumbai, from 26/11/2019 to 30/11/2019

Objective

The programme aims at providing knowledge on different shrimp diseases encountered at shrimp farms. The program will provide hands-on experience on various disease diagnostic techniques applied for shrimp disease diagnosis.



ICAR-CIFE

ICAR-Central Institute of Fisheries Education (CIFE), in over 50 years of existence, has emerged as a centre of excellence in higher education in fisheries and allied disciplines. The Institute was established on 6 June 1961, under the Ministry of Agriculture, Govt. of India with assistance from FAO/UNDP. It came under the administrative control of Indian Council of Agricultural Research (ICAR) in 1979. Considering the wide mandate involving education, research and extension and recognizing the pivotal role played by CIFE in human resources development in fisheries, the institute was conferred the status of Deemed-to-be-University in 1989. The institute with its core strength in quality teaching, research and training has become a brand name in fisheries higher education.

Aquatic Environment and Animal Health Management (AEHM Division)

Aquatic Environment and Animal Health Management Division conducts academic programmes and carry out research under two broad areas namely Aquatic Environmental Management (AEM) and Aquatic Animal Health Management (AAHM). Accordingly, the division offers M.F.Sc. and Ph.D. programmes in two disciplines, i.e. AEM and AAHM. The division also conducts demand-driven training programmes for farmers, entrepreneurs and researchers in the specialized areas, besides providing technical support and consultancy services to various stakeholders.



Programme Content

Areas to be addressed

- Overview of diseases in shrimp farming and their management
- Major environmental parameters related to shrimp farming
- Major viral diseases in shrimp farming and their management
- Major bacterial diseases in shrimp farming and their management
- General sampling methods for the diagnosis of shrimp diseases
- Disease surveillance in shrimp farming
- Use of histopathological methods in detecting various diseases and to assess the health status of shrimp
- Microbiological analysis of water, sediment samples and shrimp samples
- Isolation of vibrios from different samples
- Application of molecular diagnostic methods to detect shrimp diseases with special reference to Polymerase Chain Reaction (PCR)
- Use of probiotics and herbal supplements in shrimp health management
- PCR detection of shrimp viruses and EHP

Eligibility

State Govt. Fisheries Officers/ Fish Farmers/Students/Entrepreneurs are eligible for the training programme. A total of 20 participants will be accommodated in this programme.

How to Apply?

The application duly forwarded by the Head of the Institution (not required, in case of private candidates) should be sent to the Course Coordinators at the address provided in the brochure. Photocopies of the format can also be used. A total of 20 participants will be selected after the screening.

Travel and accommodation

To and fro Second Class fare (with tatkal) by the shortest route will be reimbursed by the organizers for the outstation candidates. Food (200 Rs/day) and lodging (50 Rs/day) will also be provided for the outstation candidates.

Fee

The training is offered under the aegis of National Agricultural Higher Education Project (NAHEP) and does not require any course fees.